

ABSTRACT

A cellular reservoir flexible pressure vessel is formed as a series of closely packed tubes fitted into a pair of opposing end caps. The end caps have individual receptacles sized and shaped to receive the tube ends that are secured with adhesive or radio frequency welding.

5 At least one end cap has a passageway for connection of the vessel. The flexible pressure vessel has a pressure relief device comprising a reduction in thickness of one end cap at a predetermined location. When subjected to overpressure it fails at the predetermined location.

Other pressure relief devices include: a projecting member on the vessel surface, a weakened section of the passageway, a weakening or an absence of braiding material or hoop winding at

10 a predetermined location on the vessel surface or along the passageway, a weakening or spreading of fibers in either the reinforcing panels or the flexible blankets covering the vessel.